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(FILE 'HOME' ENTERED AT 12:20:49 ON 20 FEB 2008)

FILE 'MEDLINE, AGRICOLA, WPIX, BIOSIS, EMBASE, CONFSCI, CAPLUS,  
DISSABS, EMBASE, SCISEARCH' ENTERED AT 12:21:05 ON 20 FEB 2008

L1 894 S (FADS2 OR DELTA6-DESATURASE OR LINOLEOYL-COA DESATURASE)  
L2 2 S L1 AND PRESENILIN  
L3 1 DUP REM L2 (1 DUPLICATE REMOVED)  
L4 2 S L1 AND NICASTRIN  
L5 1 DUP REM L2 (1 DUPLICATE REMOVED)  
L6 6 S L1 AND APP  
L7 4 DUP REM L6 (2 DUPLICATES REMOVED)  
L8 0 S L1 AND NOTCH  
L9 2 S L1 AND BACE  
L10 2 DUP REM L9 (0 DUPLICATES REMOVED)  
L11 6 S L1 AND ALZHEIMER  
L12 5 DUP REM L11 (1 DUPLICATE REMOVED)

=> s l11 and (gamma-secretase)

L13 2 L11 AND (GAMMA-SECRETASE)

=> dup rem l13

PROCESSING COMPLETED FOR L13

L14 1 DUP REM L13 (1 DUPLICATE REMOVED)

=> d l14 ibib abs

L14 ANSWER 1 OF 1 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN DUPLICATE  
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ACCESSION NUMBER: 2005-223334 [23] WPIX  
CROSS REFERENCE: 2005-242127; 2005-591561; 2005-591643; 2005-597796;  
2005-684094; 2006-164656; 2006-164657; 2006-414402  
DOC. NO. CPI: C2005-071587 [23]  
TITLE: Use of a FADS2 interacting molecule for  
preparing a pharmaceutical composition for treating  
neurodegenerative diseases  
B04; D16  
DERWENT CLASS:  
INVENTOR: HOPF C; DREWES G; RUFFNER H  
PATENT ASSIGNEE: (CELL-N) CELLZOME AG  
COUNTRY COUNT: 107

PATENT INFO ABBR.:

| PATENT NO       | KIND | DATE     | WEEK      | LA | PG     | MAIN IPC |
|-----------------|------|----------|-----------|----|--------|----------|
| WO 2005023833   | A2   | 20050317 | (200523)* | EN | 488[7] |          |
| EP 1670903      | A2   | 20060621 | (200643)  | EN |        |          |
| US 20060216292  | A1   | 20060928 | (200664)  | EN |        |          |
| US 20070161554  | A1   | 20070712 | (200747)# | EN |        |          |
| CN 1925869      | A    | 20070307 | (200752)  | ZH |        |          |
| IN 2006CN02799  | P4   | 20070608 | (200752)  | EN |        |          |
| EP 1670903      | B1   | 20070829 | (200757)  | EN |        |          |
| DE 602004008658 | E    | 20071011 | (200782)  | DE |        |          |

APPLICATION DETAILS:

| PATENT NO     | KIND | APPLICATION    | DATE     |
|---------------|------|----------------|----------|
| WO 2005023833 | A2   | WO 2004-EP9771 | 20040902 |

EP 1670903 A2  
 EP 1670903 B1  
 EP 1670903 A2  
 US 20060216292 A1  
 EP 1670903 B1  
 US 20070161554 A1  
 CN 1925869 A  
 IN 2006CN02799 P4  
 US 20060216292 A1  
 IN 2006CN02799 P4  
 US 20070161554 A1  
 DE 602004008658 E  
 DE 602004008658 E  
 DE 602004008658 E

EP 2004-764730 20040902  
 EP 2004-764730 20040902  
 WO 2004-EP9771 20040902  
 WO 2004-EP9771 20040902  
 WO 2004-EP9771 20040902  
 WO 2004-EP13457 20041126  
 CN 2004-80042303 20041129  
 WO 2004-EP13538 20041129  
 US 2006-570909 20060329  
 IN 2006-CN2799 20060728  
 US 2007-594213 20070119  
 DE 2004-602004008658 20040902  
 EP 2004-764730 20040902  
 WO 2004-EP9771 20040902

FILING DETAILS:

| PATENT NO       | KIND | PATENT NO |
|-----------------|------|-----------|
| EP 1670903      | A2   | Based on  |
| EP 1670903      | B1   | Based on  |
| DE 602004008658 | E    | Based on  |
| DE 602004008658 | E    | Based on  |

PRIORITY APPLN. INFO: EP 2004-18874 20040809  
 EP 2003-19642 20030905  
 WO 2003-EP13980 20031210  
 EP 2004-1894 20040129  
 EP 2004-1895 20040129  
 EP 2004-7447 20040326  
 WO 2004-EP4891 20040507  
 WO 2004-EP4889 20040507  
 DE 2004-102004007447 20040326  
 US 2007-594213 20070119

AN 2005-223334 [23] WPIX  
 CR 2005-242127; 2005-591561; 2005-591643; 2005-597796; 2005-684094;  
 2006-164656; 2006-164657; 2006-414402  
 AB WO 2005023833 A2 UPAB: 20060122

NOVELTY - A FADS2 interacting molecule useful for preparing a pharmaceutical composition for treating neurodegenerative diseases, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) identifying a gamma secretase and/or beta secretase inhibitor;
- (2) preparing a pharmaceutical composition for treating neurodegenerative diseases;
- (3) a protein complex comprising FADS2 and one or more proteins of the Nicastrin, BACE1, PTK7 or Presen2 complex;
- (4) preparing and optionally analyzing the complex or its components;
- (5) a nucleic acid construct containing one or more nucleic acids encoding the proteins of the complex;
- (6) a host cell containing the nucleic acid construct;
- (7) a kit comprising in one container the complex, optionally together with an antibody against the complex and/or further components such as reagents and working instructions;
- (8) an array in which at least the complex is attached to a solid carrier;
- (9) a process for processing a substrate of the complex;
- (10) a pharmaceutical composition comprising the protein complex;

(11) screening for a molecule that binds to the complex;  
(12) screening for a molecule that modulates directly or indirectly the function, activity, composition or formation of the complex;  
(13) producing the pharmaceutical composition;  
(14) diagnosing or screening for the presence of a disorder or predisposition for developing a disorder characterized by aberrant amount, component disposition or intracellular localization of the complex; and  
(15) treating or preventing a disorder characterized by aberrant amount, component disposition or intracellular localization of the complex.

ACTIVITY - Neuroprotective.

No biological data given.

MECHANISM OF ACTION - Gene therapy.

USE - The FADS2 interacting molecule is useful for modulating gamma secretase and/or beta secretase activity in vitro. The FADS2 interacting molecule is useful for modulating the amount, activity or protein components of the complex for preparing a pharmaceutical composition for diagnosing, treating or preventing neurodegenerative diseases, e.g., Alzheimer's disease. The complex is useful as a target for an active agent of a pharmaceutical composition for treating or preventing neurodegenerative diseases e.g., Alzheimer's disease. (All claimed.)

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